

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number SA441NW

This Certificate issued to AAR Aircraft Services, Inc.
DBA: AAR Aircraft Services-Oklahoma
6611 South Meridian
Oklahoma City, OK 73159-1104

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations, dated November 11, 1949.

Original Product Type Certificate Number : 1A10
Make : Piper
Model : PA 23-250

Description of Type Design Change:

Installation of two Hartzell HC-E3YR-2ATF/FC7663-2R three-bladed propellers, and Piper Navajo spinner assembly (P/N 43940-00) and associated systems in accordance with Western Skyways Installation Instructions No. WS-601.

Limitations and Conditions:

(See continuation sheet 3 of 4)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application : March 14, 1977

Date reissued : 7/22/88; 3/5/99

Date of issuance : April 26, 1977

Date amended : January 12, 1978



By direction of the Administrator

S. Frances Cox
(Signature)

S. Frances Cox, Manager
Special Certification Office,
Southwest Region

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

United States Of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA441NW

Date of Issuance: April 26, 1977

Reissuance Date: March 5, 1999

Limitations and Conditions (Continued):

Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. This approval is intended for installation in the above model with the Lycoming IO-540 series and TIO-540-C1A engines. A copy of this Certificate, Addendum No. SA441NW, FAA Approved Flight Manual Supplement, and Installation Instructions No. WS-601 shall be maintained as part of the permanent records for the modified aircraft.

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NUMBER SA441SW

The conditions and limitations of Type Certificate Data Sheet No. 1A10 apply except as follows:

This STC Addendum, which is part of Supplemental Type Certificate No. SA441SW, prescribes conditions and limitations under which the product for which the STC was issued meets the airworthiness requirements of the Civil Air Regulations. A copy of this STC Addendum is required to be maintained as part of the modified aircraft's permanent records.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: AAR Aircraft Services, Inc.
DBA: AAR Aircraft Services-Oklahoma

I. PIPER MODEL PA-23-250 5 PCLM (NORMAL CATEGORY) OR 6 PCLM (NORMAL CATEGORY)
WHEN ITEM 603(b) IS INSTALLED

Serial Nos. Eligible: 27-2505 through 27-7654001

Required Equipment: (Serial No. 27-2505 through 27-3836, 27-3838
through 27-3943 at 4800 lbs. maximum weight)
Add 1 (o).

(Serial No. 27-2505 through sy-3836, 27-3838
through 27-3943 at 5200 lbs. maximum weight)
Add 1 (o).

(Serial No. 27-3837, 27-3944 through 27-4425,
27-4427 through 27-4573) Add 1(o).

(Serial No. 27-4426, 27-4574 through 27-7654001)
Add 1(o).

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number SA441NW

Date of Issuance: April 26, 1977
Reissuance Date: March 5, 1999

Limitations and Conditions (Continued):

- Production Basis: None. Parts manufactured under this STC may have been produced without an FAA approved quality control procedure. Prior to installation, such parts must be inspected for conformity and airworthiness in accordance with FARs 21 and 43. Prior to returning modified aircraft to service, conformity with approved installation data must be determined.
- Propeller and Propeller Accessories:
1. (o) Hartzell HC-E3YR-2ATF with FC7663-2R blades. 81.0 lbs. ea. (+24)
Pitch settings at 30" Sta:
Low: 13.0; High: 80.0° (feathered)
Diameter: Not over 76.0"; Not under 75.0"

NOTE: Eligible only on PA-23-250, Serial Numbers 27-2505 through 27-7654001 when installed in accordance with STC SA441NW. NOT TO BE INTERMIXED WITH OTHER PROPELLERS.
 2. (a) Piper spinner consisting of: Cap assembly, Part No. 43929-00; Bulkhead assembly, Part No. 43933-00; and Spinner assembly, Part No. 43940-00.
- Interior Equipment: 401 (CR) WE602 dated April 26, 1977, is the FAA Approved Flight Manual Supplement and is required on Piper PA-23-250, Serial Number 27-2505 through 27-7654001 when Item 1 (c) and 2 (a) are installed in accordance with STC SA441NW.

-END-

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of this Supplemental Type Certificate.

The FAA will reissue the certificate in the name of the transferee and forward it to him.

TRANSFER ENDORSEMENT

Transfer the ownership of Supplemental Type Certificate Number _____

to *(Name of transferee)* _____

(Address of transferee) _____
(Number and street)

(City, State, and ZIP code)

from *(Name of grantor)* *(Print or type)* _____

(Address of grantor) _____
(Number and street)

(City, State, and ZIP code)

Extent of Authority (if licensing agreement): _____

Date of Transfer: _____

Signature of grantor *(In ink)*: _____